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INFORMATION REPORT

COUNTRY | East Germany

Research Projects at the Bergukademie

25X1

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25X1 The following list describes the research orders to be undertaken by the various schools of the Freiberg Metellurgical and Mining School (Mittenwesen und Erzbergbeu Bergekedenie Freiberg). It also stores the mount allotted to the research project and the completion deadline.

School Section and Person in Charge of the Research

Project humber

Comincil Classification

Doser mion

Institute for Coal Chemistry

Prof. Dr. (fnu) Lissner

150800 F2-08 (54)

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To determine presence of rere metals in DDR lignite and mineral coal, with special emphasis on iodine content. The enount allotted was 35,000 east marks and the deadline was set for the fourth quarter of 1952 .

Institute for Mineralogy

150800 F2-51

(54)

Prof. Dr. Friedrich Lautwain

To make geochemical tests on the origin of scal deposits. The amount allotted was 30,000 east marks and the deadline was set for the fourth quarter of 1952

150800 F2-53 (55)

Hining geological tests on the DDR ore deposits, primarily nonferrous de-posits. The arount alloted was 40,000 east marks and the deadline was sot for the fourth quarter of 1952.

ASSIFICATION

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Institute for Mineralogy Contag

150800 F2-52 (544.6) Development of speciograph procedures; inslytic yave-cedures. The amount ell-lotted was 30,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Applied Geophysics

Prof. Dr. (fnu) Buchheim

150800 F2-10 (550.83) Pevelopment of an electrical pressure scunding device (Druck sende) for insertion in holes made by hand drills underground as well as geophysical procedures and equipment for the control of ceiling pressure during mining. The amount allotted was 30,000 east marks and the deadline was set for the fourth quarter of 1952.

150800 F2-01 (550.83) Attempt to distinguish metallic from electrolytic conductors in the ground during classific secundings.

The answer allotted was 30,000 eact marks and the deadling was set for the fourth quarter of 1952.

150800 FROM (550.83) To attempt to localize the strate boundaries in mining more of a seismographic robe. The amount allotted as 40,000 east marks.

Institute for Physica

Prof. Dr. (fnu) Liebold

150800 F2-54 (62) To measure the gamma rays in deep-well holes with a Geiger counter. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Coal Mining

Prof. Dr. (fmu) Fleischer

150800 F2-02 (62)

To develop a large model
for testing the lead
sometic and the pressure
distribution in soils of
various physical compositions,
mechanical mixtures, water
saturations, and degrees or
sompations. The amount
illotted was 30,000 cast marks
and the deadling was set for
the second quarter of 1954.

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Institute for Coal Hining

150800 F2-03 (62) Research on the lead capacity of the soil in open-pit mining for the construction of large apparatuses. The amount allotted was 40,000 east marks, and the deadline was set for the fourth quarter of 1953.

150800 F2-04 (62) Research on the maximum size of enterprises in open-pit mining and briquet factories. The amount allotted was 170,000 east marks and the deadline was set for the fourth quarter of 1952.

Prof. (fnu) Kegel

150800 F2-05 (62) Tests on the importance of pressure conditions in loose rock and bed-rock especially in open-pit mining. The amount allotted was 27,000 east marks and the deadline was set for the fourth quarter of 1954.

Institute for Mining Science

Prof. Dr. (fmu) Spackeler

- 150800 F2-13 (62) Research on solid rock pressure in lignite deep mining and on the construction of underground pits in the open-pit mining of lignite. The amount allotted was 35,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-14 (62) Tests on the effect of the omplosives in blasting in volcanic matter and other rock.

 The amount allotted was 50,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150300 F2-15 (62) Tests on earth movements as the result of mining potash with the purpose of developing the mining process to prevent water seepage and the collection of explosive gases. The smount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1952.

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Institute for Fining Science (Cont'd)

150800 F2-55

(62) Tests on the reaction of loose rock and lignite to freezing as a result of sinking shafts by the freezing process. The amount allotted was 25,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Washing Cres

Prof. Dr. (fmu) Kirchberg

150800 F2-22

(62) Washing of complex lead, zinc, and pyrite ores for the purpose of improving the nonferrous metal base. The amount ellotted was 26,000 east marks and the deedline was set for the fourth quarter of 1952.

150800 F2-23

(63) Improvement of the yield and the enrichment process in the washing of DDR tin ores. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Metallography

Prof. Dr. Erdmann-Jesnitzer

150800 F2~30

(62) Investigation into the mature of the molecular construction of molten notal and walded metal surfaces. The amount allotted was 14,000 east marks and the deadline was set for the fourth quarter of 1953.

150800 F2-32

(62) Development of new kinds of jackets which are able to be easily produced for welding electrodes. The amount allotted was 13,000 east marks and the deadline was set for the fourth quarter of 1953.

150800 F2-35

(66) Research on statistical processes for welded frameworks in lightweight construction. The amount ellotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

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Institute for Metallography

150200 F2-36

(62) faking of corresion-resistant, notallic, non-metalloid coatings on metals and alloys by mienting the metal structures in relation to the surface to a protected. The amount liotted was 11 000 east marks and the deadling was set for the fourth quarter of 1952.

150800 F2-38

(62) Testing of boaring sockets

of small thickness in relation
to the effect of greasing
in order to save nonferrous
metals. The amount allotted
was 18,000 east marks and
the deadline was set for the
fourth quarter of 1952.

Prignet Institute

Frof. Dr. (fnu) Remaler

150800 F2-45

(62) Comparison of gas drying and steam drying with respect to briquetting technique and thermal economy. The smount allotted was 20,000 east marks and the deadline was det for the fourth quarter of 1953.

150800 F2-46

(62) Laboratory tests on the wiring of aftertreatment apparatuses (after-drying, after-splitting, and cooling the coals) in briquet factories, especially for finegrain briquetting. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Technical Analysis of Fuel

Prof. Dr. (fmu) Rammler

150800 F2-06

- (66) Comparison of carbonization experiments using briquets, which are used in different carbonization experiments. The amount allotted was 26,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-07
- (65) Comparison of carburation experiments using "Generator" briquets coming from various scurces in a rotary-gratetype producer. The amount allotted was 40,000 east marks and the deadline was set for the fourth quarter of 1952.

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for the fourth quarter of 1952.

Coranics Institute

Prof. Lw. (finu) Hease

- 150800 F2-16 (66) Testing the voltages in covarie materials, especially porcelain, for high-tension lines and the development of a new means of measuring the voltage. No amount was alletted and the deadline was set
- 150800 F2-17 (66) Tests on high temperature
 white glazing (weissdeckende
 Scharffeuerglasuren). The
 amount allotted was 8,000 east
 marks and the deadline was set
 for the fourth quarter of 1952.

Institute for Metal Casting

Prof. Dr. (fnu) Netter

150800 F2-18

(66) Flow processes in cast iron grooves. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1952.

Institute for Washing Ores

Prof. Dr. (fmu) Kirchberg'

150800 F2-20

(66) Systematic development of cation-active flotation material for the machanical consentration of oxide minerals. The amount alletted was 10,000 cast marks and the deedline was set for the third quarter of 1952.

150800 72.21

Preparation of 1907grade fluorite by a modern washing process in order to resising railwable run material contained in the fluorite. The amount allowed was 25,000 east marks and the deadline was set for

Institute for Metallurgy

Prof. Grad. Eng. (fnu) Lange

150800 F2-25

the fourth swarter of 1972.

(66) Tests on the dependence of the speed by which crude lead is refined on the exsenic, tin, and antimony content. The amount allotted was 7,000 tons and the deadline was set for the fourth quarter of 1955.

150800 F2-27

(66) Experimental and theoretical tests on the reworling of scrap metals, copper as well as lead, by the application of the vacuum technique. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

Institute for Metallurgy (Cont'd)

150800 F2-28

- (66) Systematic experiments on the effect of lead dust, obtained while working lead, on rare metals which up to now have not been used, such as cadmium, thallium, tallurium, indium, and germanium for the purpose of using them. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1953.
- 150800 F2-29 (66) Application of washing processes on metallurgical by products in order to nake full use of them economically and technically. The amount allotted was 15,000 east marks and the deadline was set for the fourth quarter of 1953.

Briquet Institute

- 150800 F2-40 (66) Tests on the retrastoriness of briquets. Development of a practical testing oven, based on the Werner oven, to judge independently the technical perfermance of the briquet while it is fired. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1953.
- 150800 F2-41 (66) Comparative test of various possible processes to determine the hardness of lignite and the relation of the hardness to the ability to be made into briquets. Clarification of the connection between hardness classification and ability to be made into briquets. The amount allotted was 10,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-43 (66) Influence of the preliminary coal's ability to be pressed into briquets and on the characteristies of the briquet. The amount allotted was 20,000 east marks and the deadline was set for the fourth quarter of 1952.
- 150800 F2-44 (66) Tests on the quality evaluation and the improvement of quality of briquets. The amount allotted was 25,000 east marks and the deadline was set for the fourth quarter of 1953.

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Institute for Metallography

Prof. Dr. (fnu) Erdmann-Jesnitzer

150800 F2-34

(62) Tests on the reactions in high-voltage electric arcs. The amount allotted was 14,000 east marks and the deadline was set for the fourth quarter of 1953.

2. The following research projects have no set deadline:

150800 F2-26	Basic tests on the de	zinsing of decilvered load in a improvement of the working of zinc
	Your containing rare	netal. if the occasion should arise, The amount allotted was 3,000 east

- 150800 F2-31 Comparative tests concerning the corresive action of welded seams and rivets to gas containers. The amount allotted was 5,000 east marks.
- 150800 F2-33 Experiments of lattice changes during plastic deformation of structural steels in the same of critical strain. The amount allotted was 3,000 east marks.
- 150800 F2-37

 Metallurgical research for reduction of the effect of cavitation in injection molding die easting by elimination of the effect of resonance from grain case. The small allotted was 4,000 east marks.
- 150800 F2-39 The effect of the composition of additive alloys and special pretreatment on the viscosity and mold filling properties of melten netals. The amount allotted was 5,000 east marks.
- 150800 F2-47 Tests to locate CO₂ deposits in pobash mining with geoelectric measuring methods. The amount allotted was 0,000 east marks.
- 150800 F2-48

 Development of an apparatus to determine the K20 soutent of our drillings. The amount allotted was 3,000 east marks.
- 150800 F2-49 Development of valve pipe "(Strobetron)" with a very short time discharge in order to attemption refer pipe impulses. The amount allotted was 4,000 east marks.
- 150800 F2-50 The stratigraphy of lignite on the basis of "pollon-analytischer" tests to determine the age of the coul located in central Germany.